

MA 16010 Applied Calculus I

Calendar (IMPACT), Fall 2018

Exam 1: Lesson 2-10 Exam 2: Lesson 11-18 Exam 3: Lesson 19-28

| Date | Lesson | Topics |
|-----------|---------|--|
| 8/20 Mon | 1 | Course Information; CCI (no calculators); Worksheet 1 |
| 8/22 Wed | 2 & 3 | Finding Limits Numerically; One-sided Limits; Finding Limits Graphically; Worksheet 2 |
| 8/27 Mon | 4 & 5 | Finding Limits Analytically; Continuity; Worksheet 3 |
| 8/29 Wed | 6 | The Derivative; Worksheet 4 |
| 9/3 Mon | | LABOR DAY NO CLASSES |
| 9/5 Wed | 7 | Basic Rules of Differentiation; Derivatives of the Sine and Cosine Functions; Derivative of the Natural Exponential Function; Worksheet 5 |
| 9/10 Mon | 8 & 9 | Instantaneous Rates of Change; The Product Rule; Worksheet 6 |
| 9/12 Wed | 10 | The Quotient Rule; Derivatives of the Other Trigonometric Functions; Worksheet 7 |
| 9/17 Mon | 11 | The Chain Rule; Worksheet 8 |
| 9/17 Mon | | EXAM 1 Time: 8:00-9:00pm Location: ELLT 116 |
| 9/19 Wed | 12 & 13 | The Chain Rule; Derivative of the Natural Logarithmic Function; Higher Order Derivatives; Worksheet 9 |
| 9/24 Mon | 14 | Implicit Differentiation; Worksheet 10 |
| 9/26 Wed | 15 | Related Rates; Worksheet 11 |
| 10/1 Mon | 16 | Related Rates; Worksheet 12 |
| 10/3 Wed | 17 & 18 | Relative Extrema and Critical Numbers; Increasing and Decreasing Functions and the First Derivative Test; Worksheet 13 |
| 10/8 Mon | | FALL BREAK NO CLASSES |
| 10/10 Wed | 19 | Concavity, Inflection Points and the Second Derivative Test; Worksheet 14 |
| 10/15 Mon | | Review for Exam |
| 10/15 Mon | | EXAM 2 Time: 6:30-7:30pm Location: ELLT 116 |
| 10/17 Wed | 20 | Absolute Extrema on an Interval; Worksheet 15 |
| 10/22 Mon | 21 | Graphical Interpretation of Derivatives; Worksheet 16 |
| 10/24 Wed | 22 & 23 | Limits at Infinity; A Summary of Curve Sketching; Worksheet 17 |
| 10/29 Mon | 24 & 25 | Optimization; Worksheet 18 |
| 10/31 Wed | 25 & 26 | Optimization; Worksheet 19 |
| 11/5 Mon | 27 | Antiderivatives and Indefinite Integration; Worksheet 20 |
| 11/7 Wed | 28 | Antiderivatives and Indefinite Integration; Worksheet 21 |

MA 16010 Applied Calculus I

Calendar (IMPACT), Fall 2018

Exam 1: Lesson 2-10 Exam 2: Lesson 11-18 Exam 3: Lesson 19-28

| Date | Lesson | Topics |
|-------------|---------|--|
| 11/12 Mon | 29 & 30 | Area and Riemann Sums; Definite Integrals; Worksheet 22 EXAM 3 Time: 6:30-7:30pm Location: ELLT 116 |
| 11/12 Mon | | |
| 11/14 Wed | 31 | The Fundamental Theorem of Calculus; Worksheet 23 |
| 11/19 Mon | | NO CLASSES |
| 11/21 Wed | | THANKSGIVING (NO CLASSES) |
| 11/26 Mon | 32 | The Fundamental Theorem of Calculus; Worksheet 24 |
| 11/28 Wed | 33 | Numerical Integration; Worksheet 25 |
| 12/3 Mon | 34 | Exponential Growth Worksheet 26 |
| 12/5 Wed | 35 | Exponential Decay Worksheet 27; CCI (no calculators) |
| 12/10-12/15 | | WEEK OF FINAL EXAMS |